RP-MC311PSC20

10/100/1000 Base-T to 100/1000Base-SX Gigabit PoE Media Converter

The RP-MC311PSC20 is a high-performance Gigabit PoE media converter designed to seamlessly bridge 10/100/1000Base-T copper and 100/1000Base-SX fiber connections. It offers a



reliable and flexible solution for extending network reach in enterprise and industrial environments.

Supporting IEEE 802.3, 802.3u, 802.3z, 802.3ab, and 802.3af/at standards, it delivers both data and power over Ethernet cables, simplifying installation for PoE-enabled devices. Its store-and-forward design ensures efficient data handling with minimized transmission errors.

With automatic MDI/MDI-X and full/half-duplex detection, setup is quick and hassle-free. The converter extends network distance up to 20Km over multimode fiber and operates reliably in ambient temperatures from 0 °C to 40 °C, ensuring stable performance in varied conditions.

Features

- Supports IEEE 802.3, 802.3u, 802.3z, 802.3ab, and 802.3af/at PoE.
- Gigabit Media Conversion, converts 10/100/1000Base-T to 100/1000Base-SX.
- Increases network range up to 20km over fiber.
- Supports auto-sensing for full/half-duplex modes.
- MDI/MDI-X Auto-Sensation, automatically adjusts for different cables.
- Store-and-Forward, Buffers packets to reduce transmission errors.
- Supports power delivery via IEEE 802.3af/at.
- Robust Operation: 0 °C to 40 °C ambient temperature

Specifications

Standard	 IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, IEEE802.3ab 1000Base-T,
	IEEE802.3z 1000Base-SX Gigabit Ethernet
	IEEE802.3af/at PoE
Interface	 One 10/100/1000BASE-T PoE+ port
	One 100/1000Bast-X Multi-mode SC fiber port (20km)
DIP Switch	DIP 1: LFP On/Off
	DIP 2: Flow Control On/Off
Switch fabric	• 4 Gbps
Throughput	• 2.976 Mpps
Jumbo Frame	• 9KB
MAC address table	• 2K
LED indicators	PWR (Green) power supply
	• 1000 (Green) 1000Mbps for UTP
	100 (Green) 100Mbps for UTP
	L/A (Green) Link/Active for UTP
	FX (Green) Link/Active for Fiber
	FDX (Green) Full duplex mode for UTP
Power supply	External power adapter DC52V/65W
Power consumption	• Max. 30W
Operating Temperature	• 0~40°C
Operating Humidity	• 5%~90%
Storage Temperature	• -40~70°C
Storage Humidity	• 5% ~ 90% non-condensing
Dimensions	• 71 × 94 × 26 mm (WxDxH)
Certification	CE, FCC

Ordering information

10/100/1000Base-T to 100/1000Base-SX Gigabit PoE Media RP-MC311PSC20

Converter, MM/SC-20km